

# Can You Make It Empty 1

You are given a string  $S$  with only 0 and 1. You can delete the string 100 from any position of  $S$  an infinite number of times and obtain a new  $S$  after concatenation. Is it possible to make the string empty?

As for example, if  $S=101000$  then  $101000 \rightarrow 100 \rightarrow \text{empty}$

If  $S=1010001$  then  $1010001 \rightarrow 1001 \rightarrow 1 \rightarrow \text{not empty}$

## Input

Input starts with an integer  $T$  ( $\leq 100$ ), denoting the number of test cases.

Each case contains a string  $S$ . The size of string is at most 100.

## Output

For each test case, print the case number and “yes” if it is possible to make the string  $S$  empty, print “no” otherwise.

### Sample Input

2

101000

1010001

### Output for Sample Input

Case 1: yes

Case 2: no

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